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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/604,741	08/14/2003	Chin-Cheng Chien	NAUP0534USA	1740
27765	7590 03/19/2004		EXAMINER	
NAIPO (NORTH AMERICA INTERNATIONAL PATENT OFFICE) P.O. BOX 506 MERRIFIELD, VA 22116			JACKSON JR, JEROME	
			ART UNIT	PAPER NUMBER
	,		2815	
			DATE MAILED: 03/19/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	10/604,741	CHIEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jerome Jackson Jr.	2815				
The MAILING DATE of this communical Period for Reply	tion appears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) data - If NO period for reply is specified above, the maximum statutor - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a recation. ays, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT by statute, cause the application to become ABA	eply be timely filed  (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed of	on					
2a) This action is <b>FINAL</b> . 2b)	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice	under <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-15 is/are pending in the app	lication.					
4a) Of the above claim(s) is/are v	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,7,9-13 and 15</u> is/are reject	ed.					
7)⊠ Claim(s) <u>6,8 and 14</u> is/are objected to.						
8) Claim(s) are subject to restriction	n and/or election requirement.					
Application Papers						
9) The specification is objected to by the E	xaminer.					
10)⊠ The drawing(s) filed on <u>14 August 2003</u>	is/are: a)⊠ accepted or b)□ obj	ected to by the Examiner.				
Applicant may not request that any objection	n to the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the	correction is required if the drawing(	s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by	the Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for a) All b) Some * c) None of:  1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International  * See the attached detailed Office action for	cuments have been received. cuments have been received in Ap he priority documents have been in Bureau (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-</li> </ol>		ummary (PTO-413) /Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTC Paper No(s)/Mail Date		formal Patent Application (PTO-152)				

Application/Control Number: 10/604,741

Art Unit: 2815

Throughout the specification "nitride spacer 22" should apparently be –nitride spacer 23--. Correction is required.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-7,9-13,15 are rejected under 35 U.S.C. 102(b) as being anticipated by Noguchi '525.

Noguchi shows in figure 14 and in other figures a MOS transistor including a gate electrode 1, a gate insulating layer 2, a semiconductor substrate 17, a spacer 8", a lightly doped s/d extension 13,14 comprising a raised epitaxial layer bordering the bottom of the spacer, a heavily doped s/d region 15' next to an outer edge of the spacer, and a silicide layer 15. Claim 1 is anticipated. Claims 2 and 5 are rejected as the epitaxial material may be SiGe or SiGeC (col.9 lines 8-14). Claim 3 is rejected as the functional language does not structurally distinguish over the applied art which can function in the same manner. Claim 4 is rejected as p-channel devices are also disclosed by Noguchi. See column 15 lines 22-30. Claim 7 is rejected as the epitaxial layer of Noguchi is in the same range of "about". Claim 9 is rejected as the ldd regions

13 and 14 have a higher doping than the well 7 and a lower doping than s/d regions 15'. Claim 10 is rejected as the epitaxial layer is below and next to the sidewall spacer in Noguchi. Claims 11-13 and 15 are also rejected as above.

Claims 6, 8 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Rodder '091, Lee '973, and Oowaki '165 are relevant art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Jackson Jr. whose telephone number is 571 272 1730. The examiner can normally be reached on t-th 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571 272 1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JEROME JACKSON PRIMARY EXAMINER